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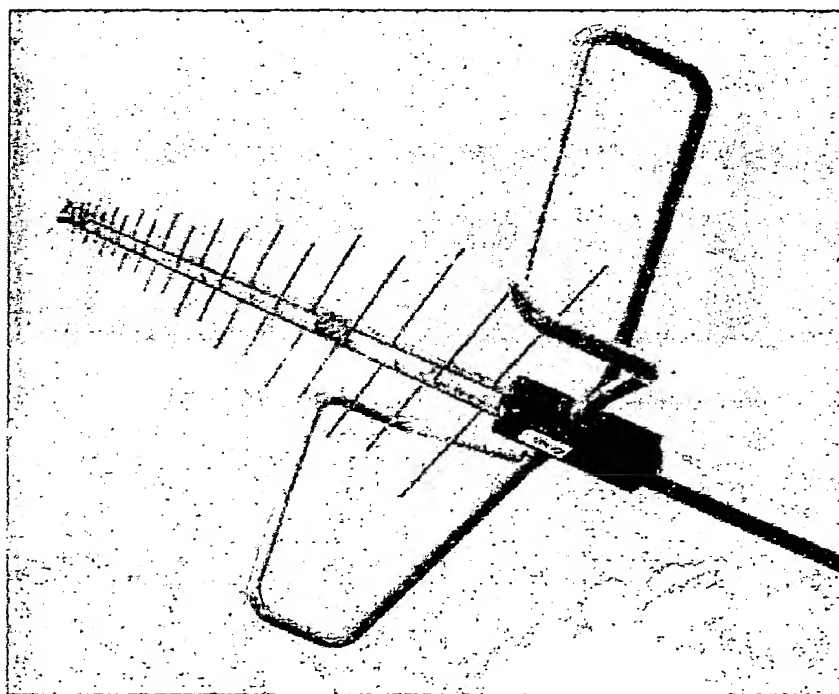


# Sunol Sciences Corporation

*Manufacturers of Turntables, Positioning Towers and Antennas for EMC Testing*

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## JB Series Broadband EMC Test Antennas 30 MHz - 5 GHz



**JB Series** antennas are compact, high-performance instruments designed for EMC emissions and immunity testing. The broadband characteristics of these antennas enable them to operate over a wide frequency range - a must for automated test environments. Innovative design and manufacturing techniques result in long-lasting strength and mechanical integrity. The result is an electrically stable measuring instrument that maintains calibration over extended use.

The antenna boom is made from a custom aluminum extrusion that reduces the number of parts at the nose. The result is a stronger, more stable feedpoint and excellent cross-polarization properties. The unique shape allows for a larger feed cable to be used, which significantly increases the maximum power rating. Dipole elements are permanently attached to the boom by an assembly technique that maintains excellent electrical characteristics for the life of the antenna.

The low-frequency wings are swept forward and turned in at the ends to reduce ground plane coupling while maintaining performance. Each wing is attached with dual compression fittings for true alignment. A tough powdercoat finish with UV inhibitors seals the aluminum structure and protects it from sunlight and moisture.

### Mounting

**JB Series** antennas have a 22 mm diameter stainless steel rear mounting tube. This configuration

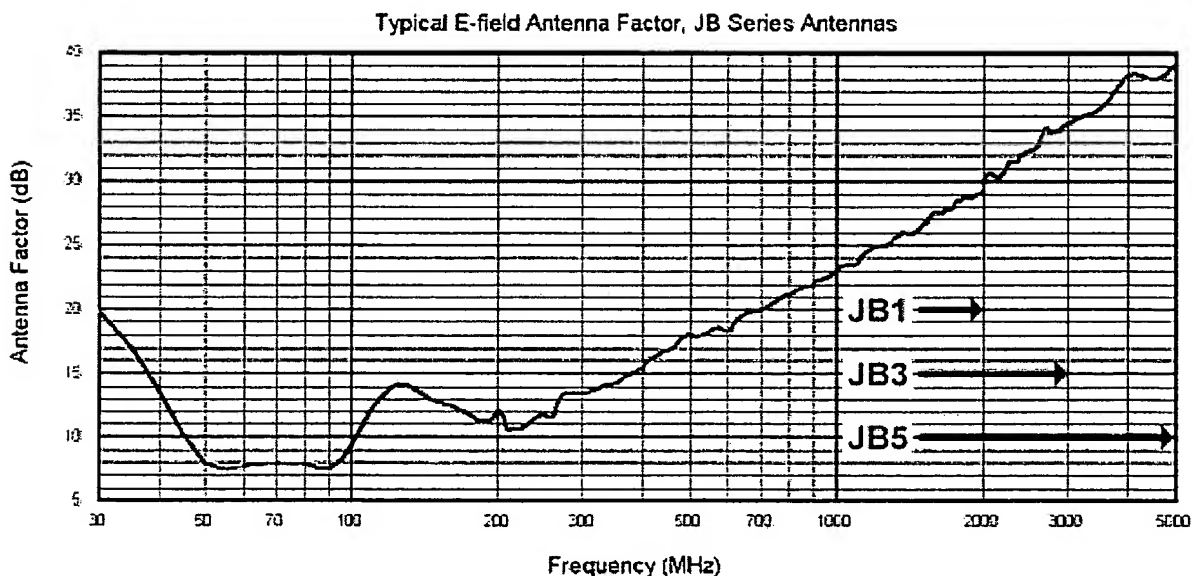
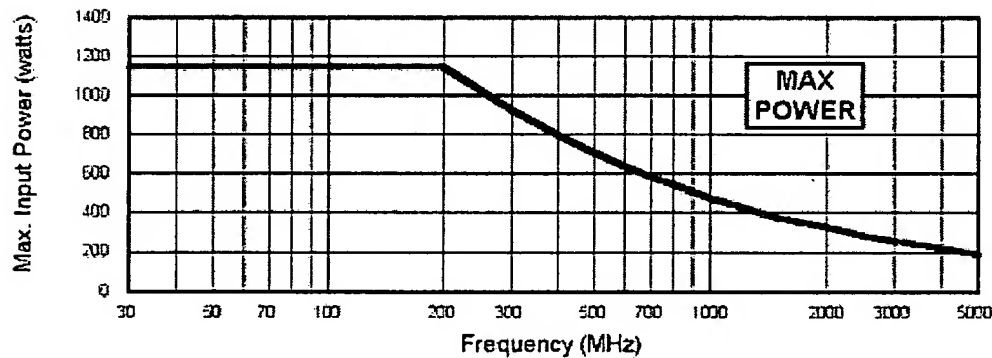
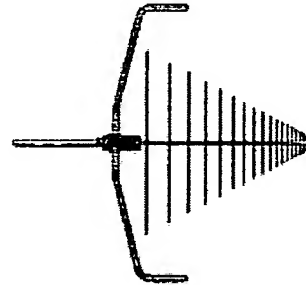
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enables polarization changes without physical displacement of the antenna and minimizes the effect of the RF cable by keeping it well behind the antenna elements. The Sunol SNAP! mount provides a secure interface to most antenna positioning towers. It locks the antenna in place, prevents unwanted rotation and facilitates rapid antenna changes.

### Specifications:

Frequency range: 30 MHz - 2, 3 or 5 GHz  
 Impedance: 50 ohms nominal  
 VSWR: <2:1 above 200 MHz  
 Connector: Type N female  
 Polarization: Linear  
 Imbalance: Less than 1 dB  
Max. Power: 1kw (30-200 MHz)  
 500 watts @ 1 GHz  
 300 watts @ 2 GHz  
 250 watts @ 3 GHz  
 200 watts @ 5 GHz  
 Length: 51 in. (130 cm)  
 Width: 19 in. (48 cm)  
 Wing span: 44 in. (112 cm)  
 Weight: 10 lbs. (5 kg)  
 Wing mount: Dual compression fitting  
 Mounting Tube: 22 mm diameter SST  
 Finish: Sunol powdercoat

Model	Frequency
JB1	30 - 2000 MHz
JB3	30 - 3000 MHz
JB5	30 - 5000 MHz



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Includes individual NVLAP accredited calibration

Options

- Tripod mount
- Sunol SNAP! mount
- Carrying case

Applications

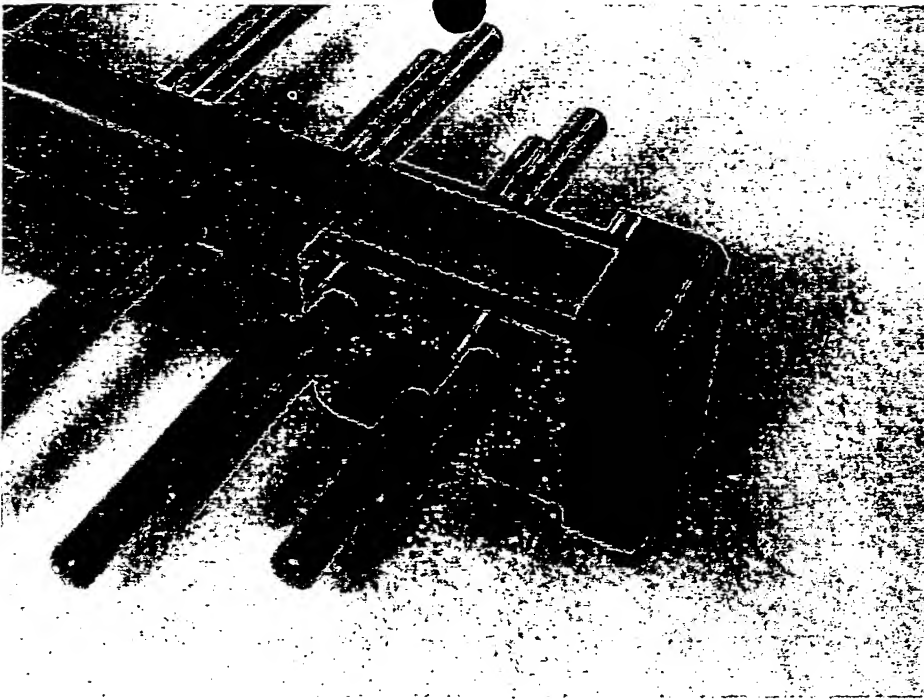
- Radiated emissions
- Radiated immunity
- Pre-scan/Full compliance

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